

FIG. 1

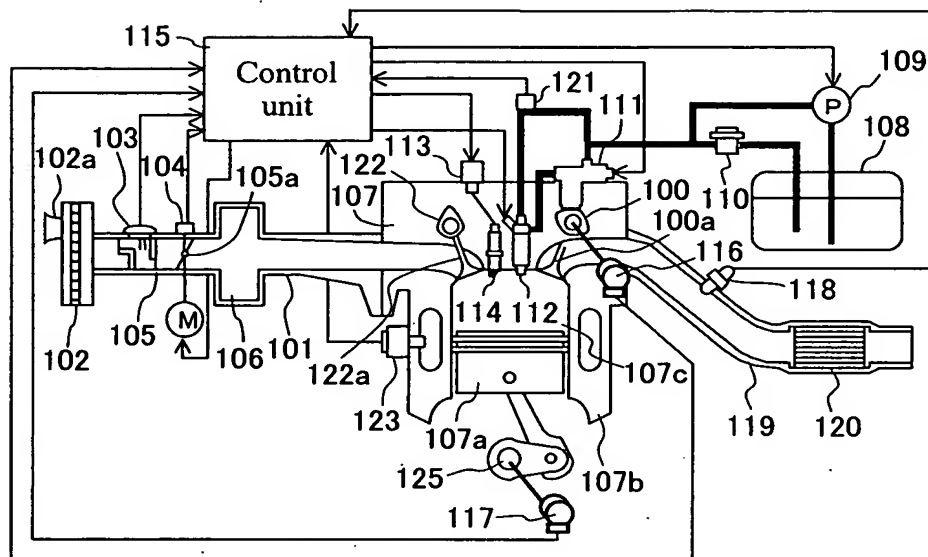


FIG. 2

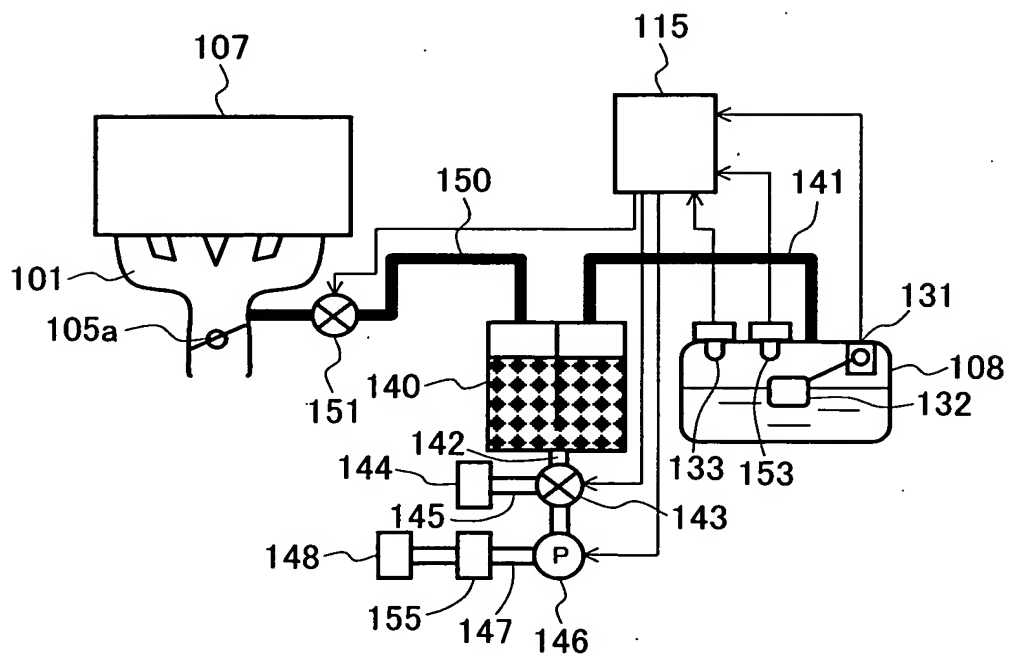


FIG. 3

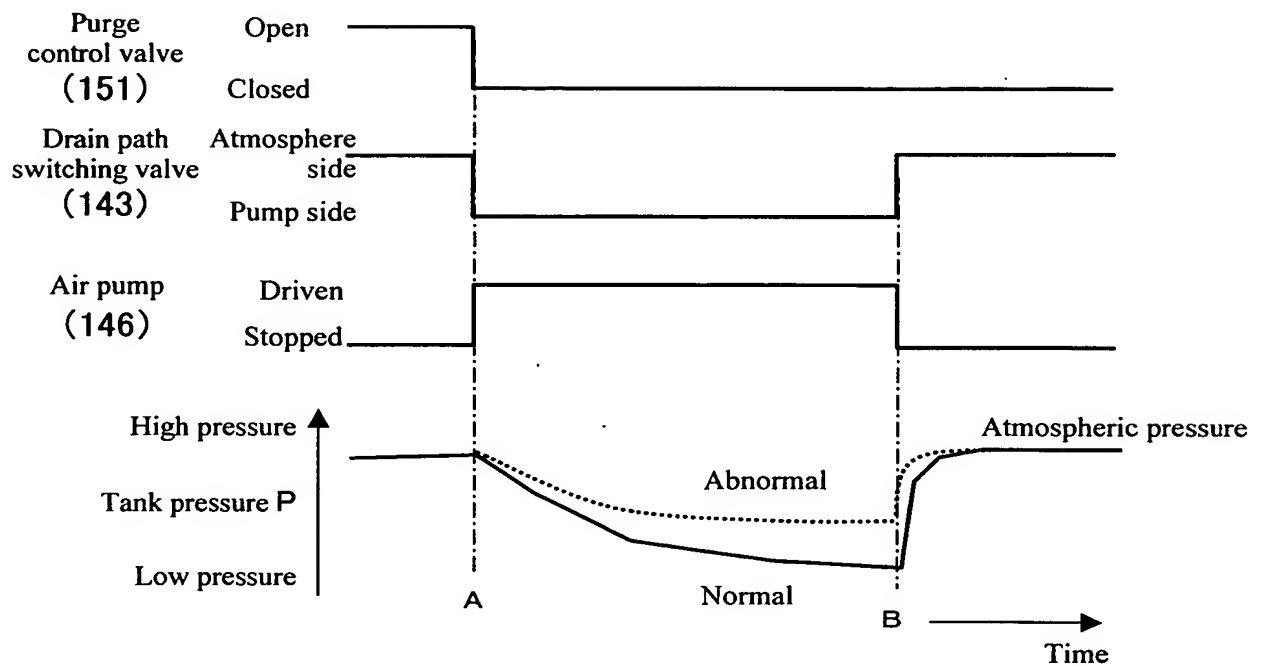


FIG. 4

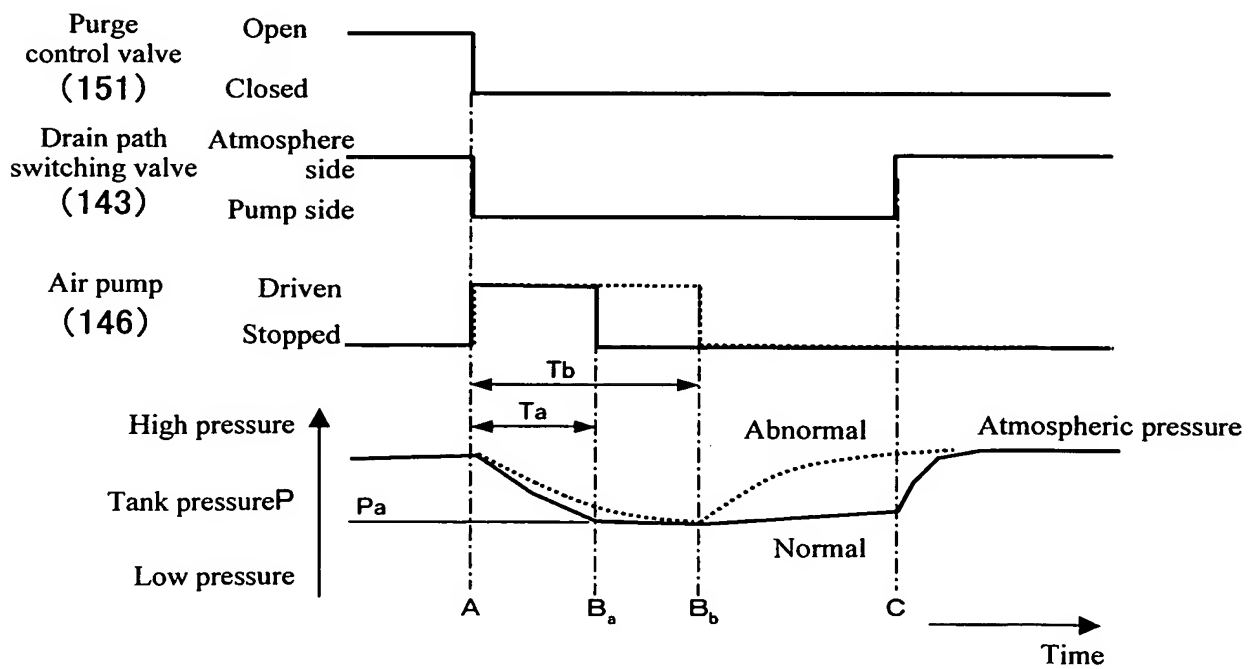


FIG. 5 A

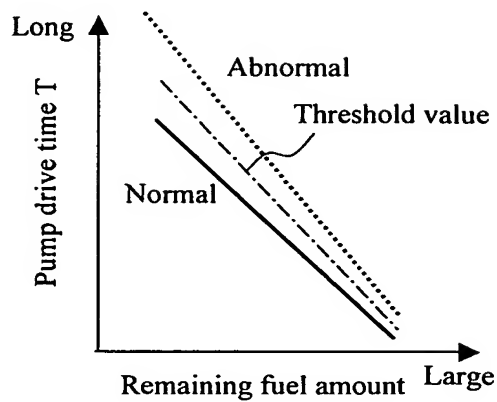


FIG. 5 B

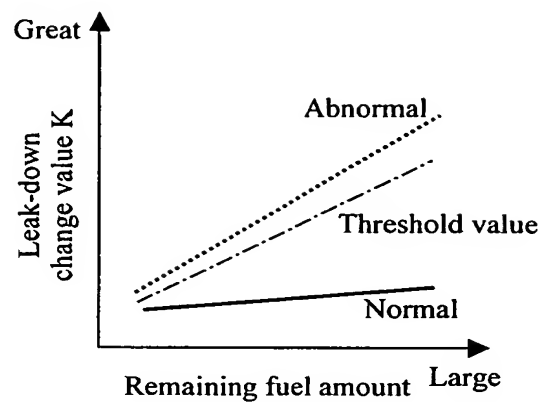


FIG. 6

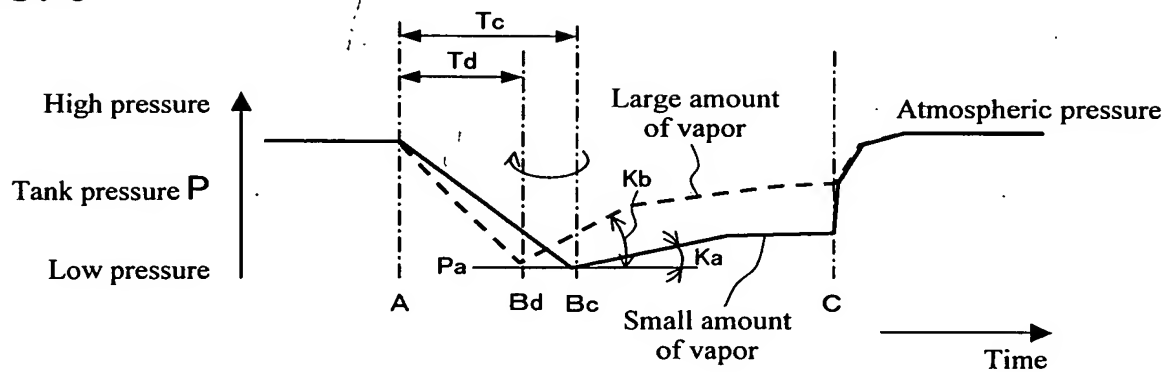


FIG. 7

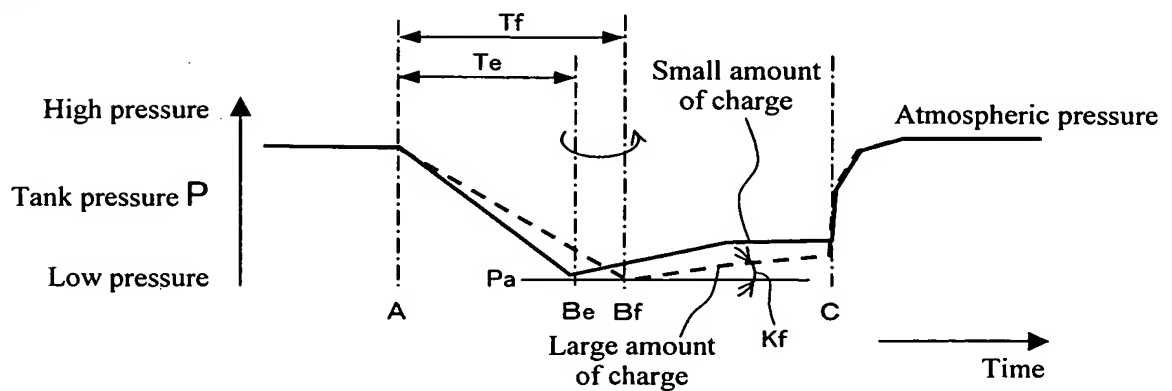


FIG. 8

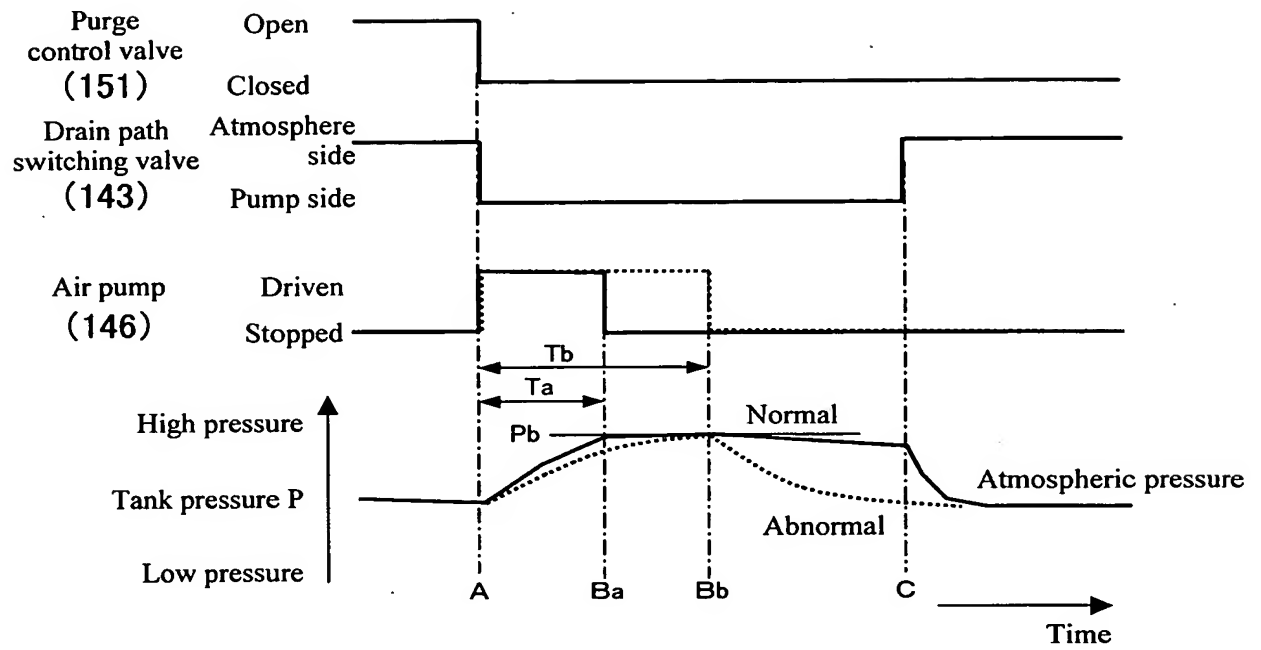


FIG. 9

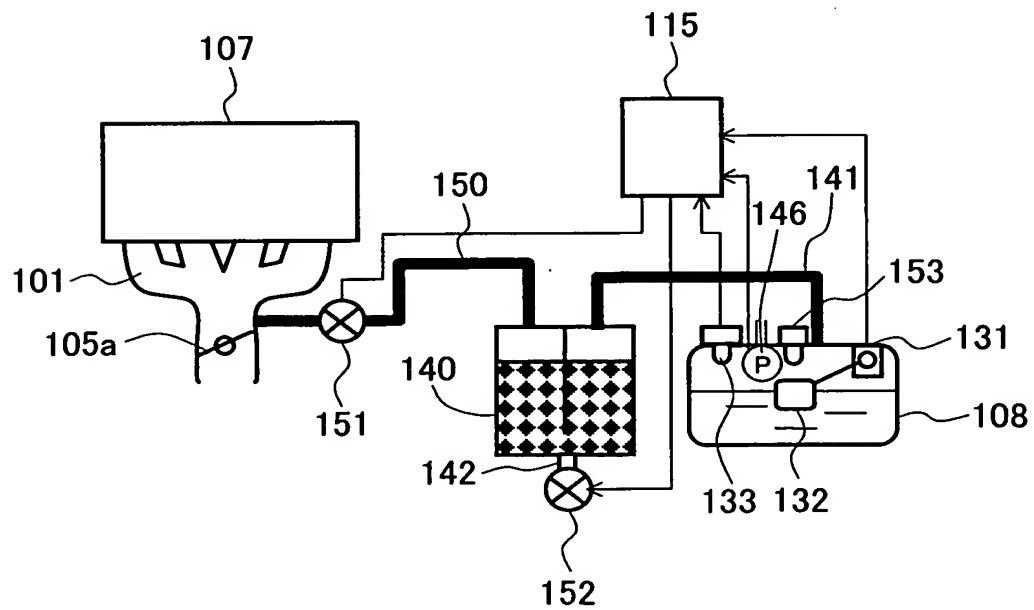


FIG. 10

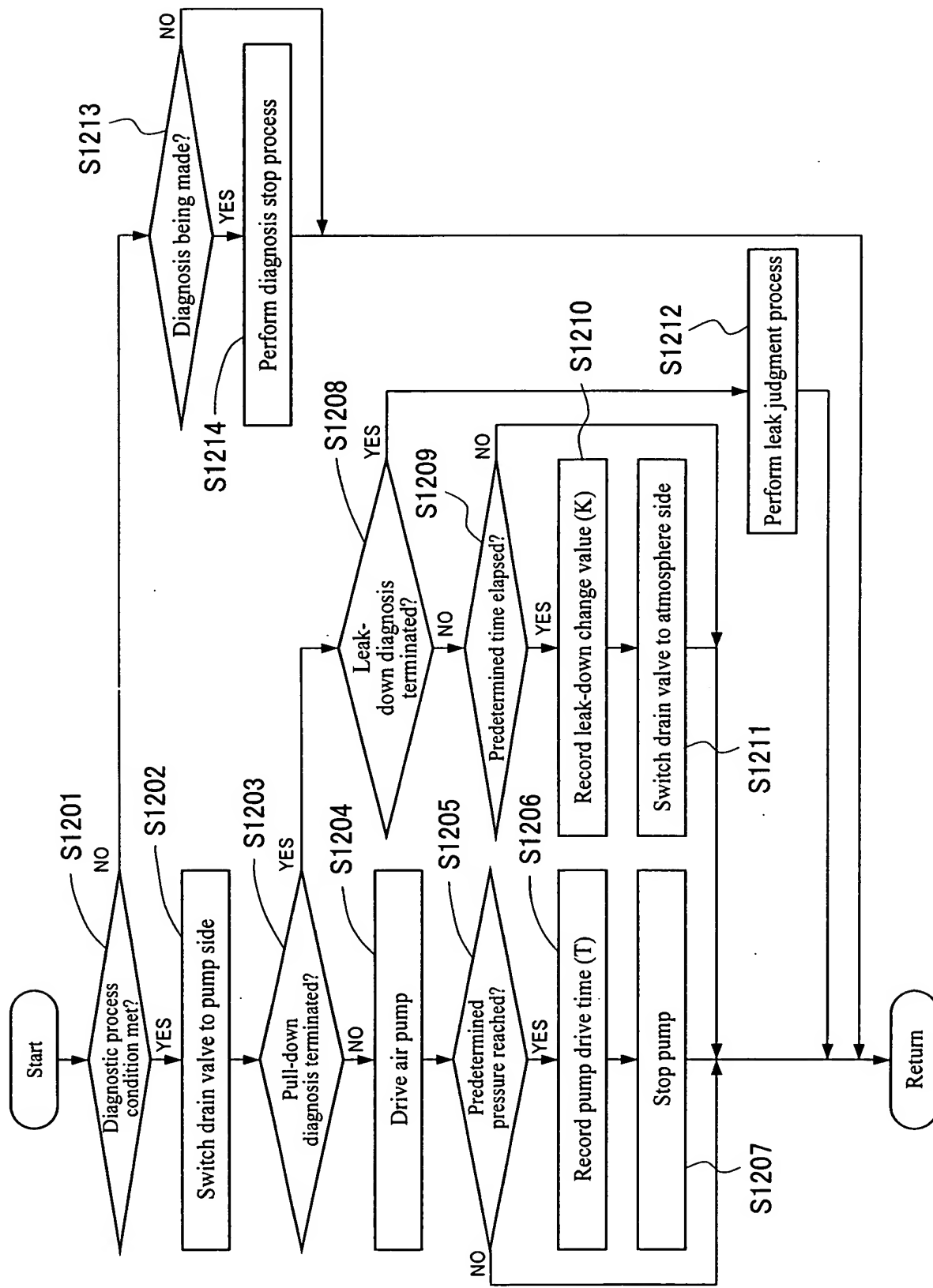


FIG. 11

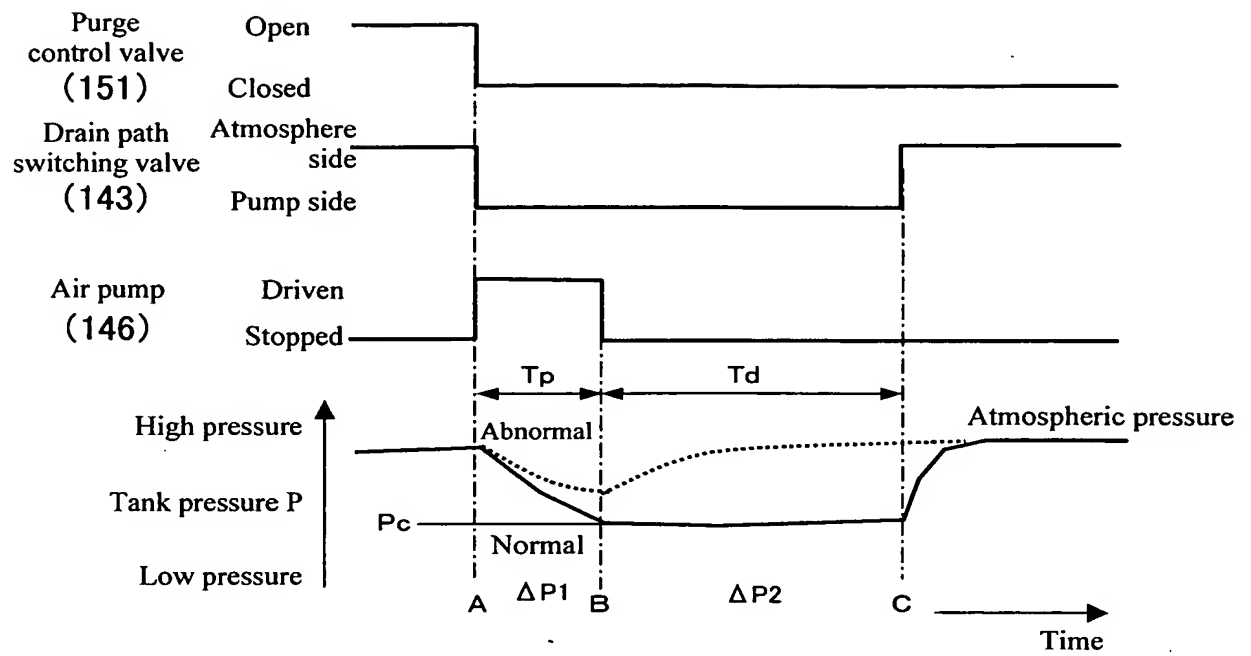


FIG. 12

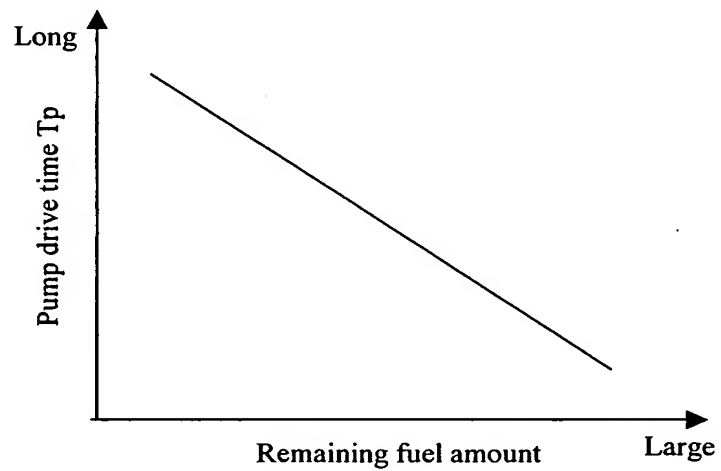


FIG. 13 A

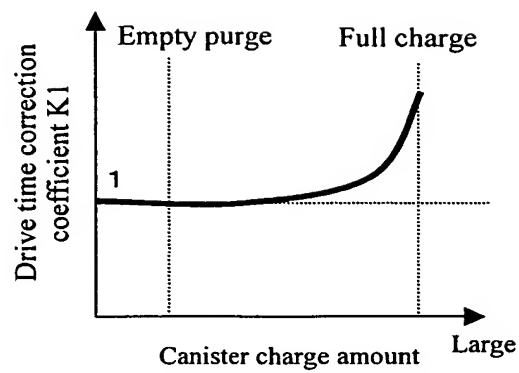


FIG. 13 B

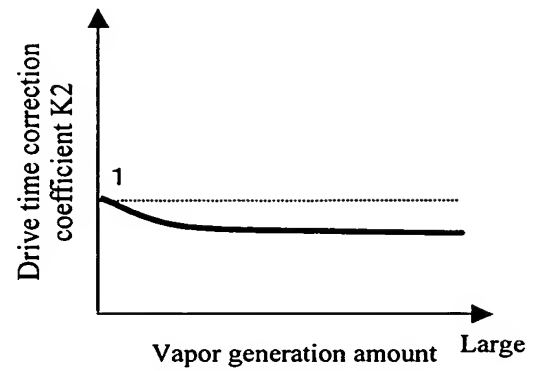


FIG. 14

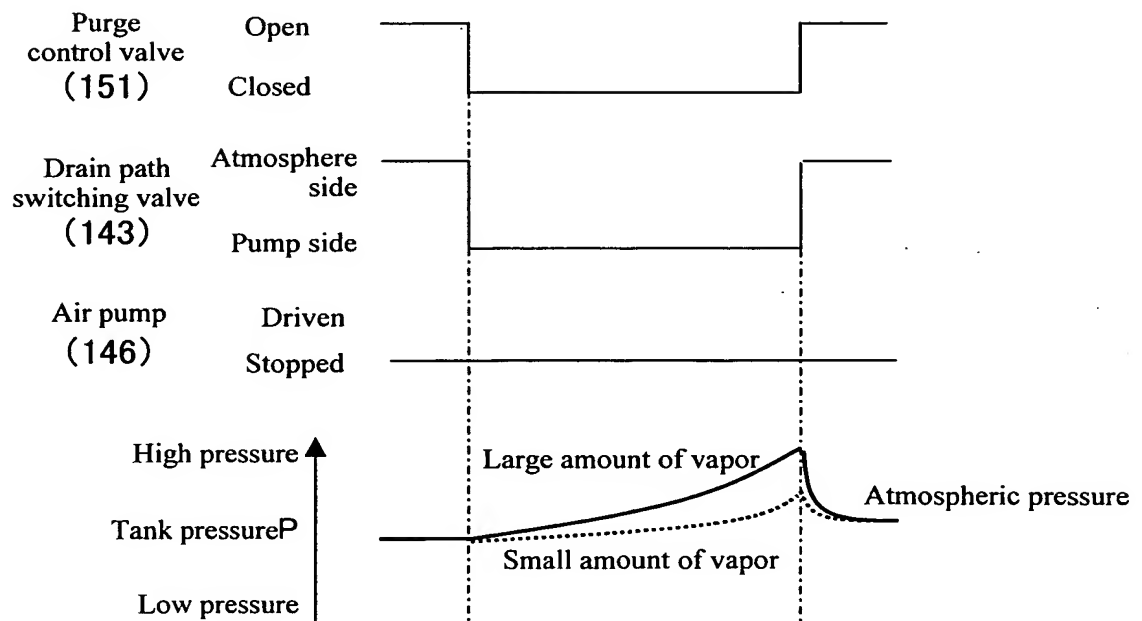


FIG. 15 A

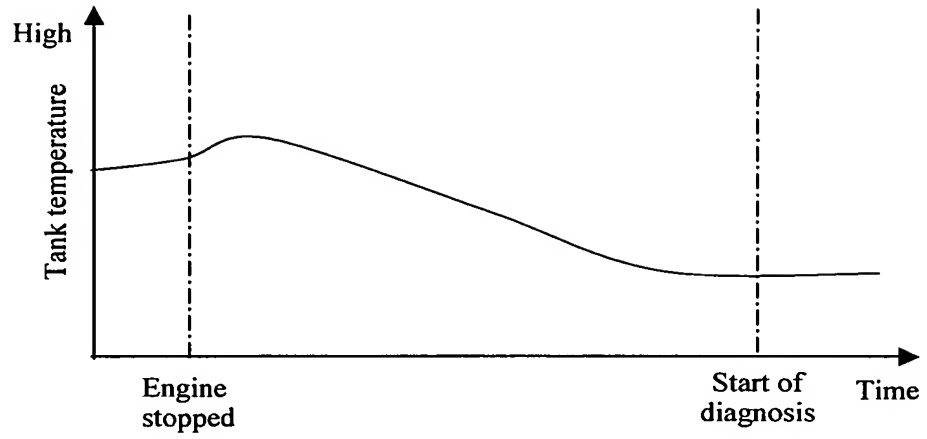


FIG. 15 B

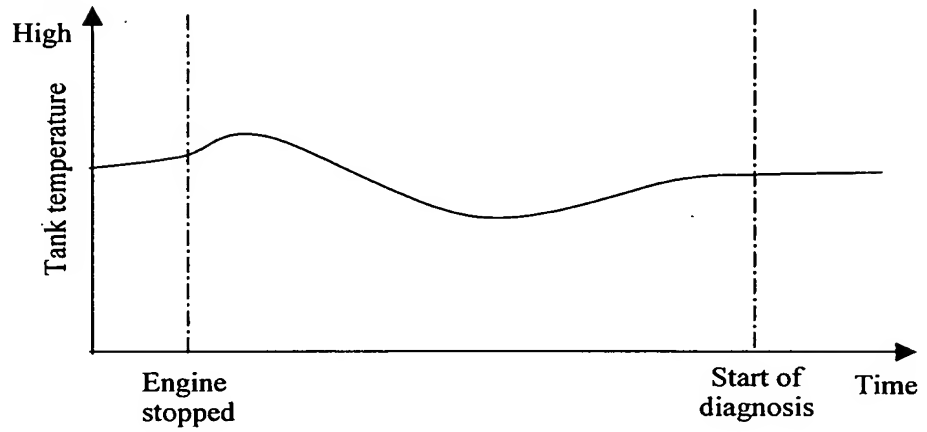


FIG. 15 C

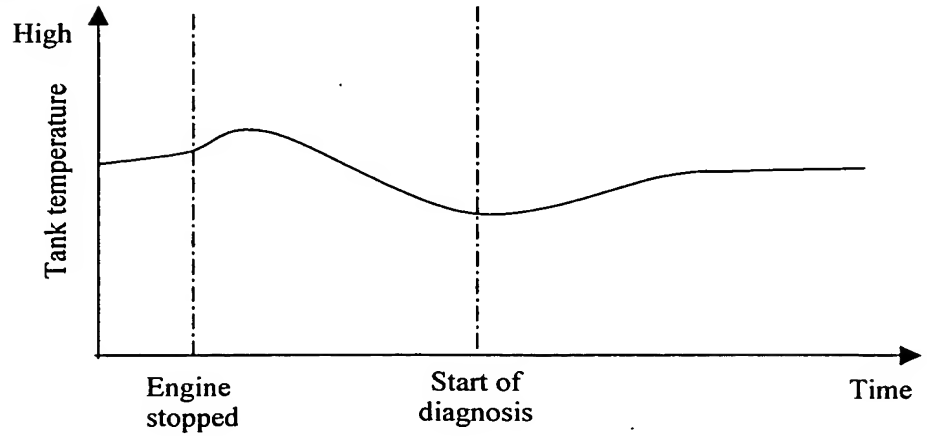


FIG. 16 A

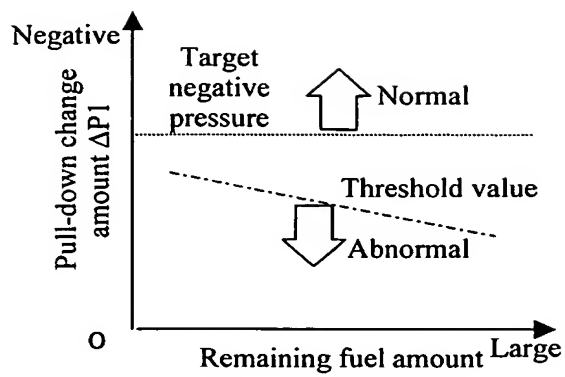


FIG. 16 B

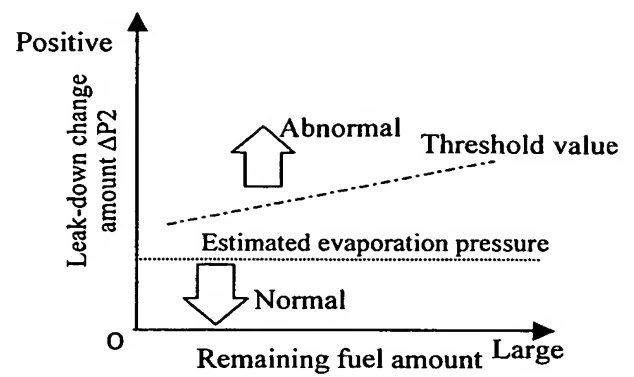
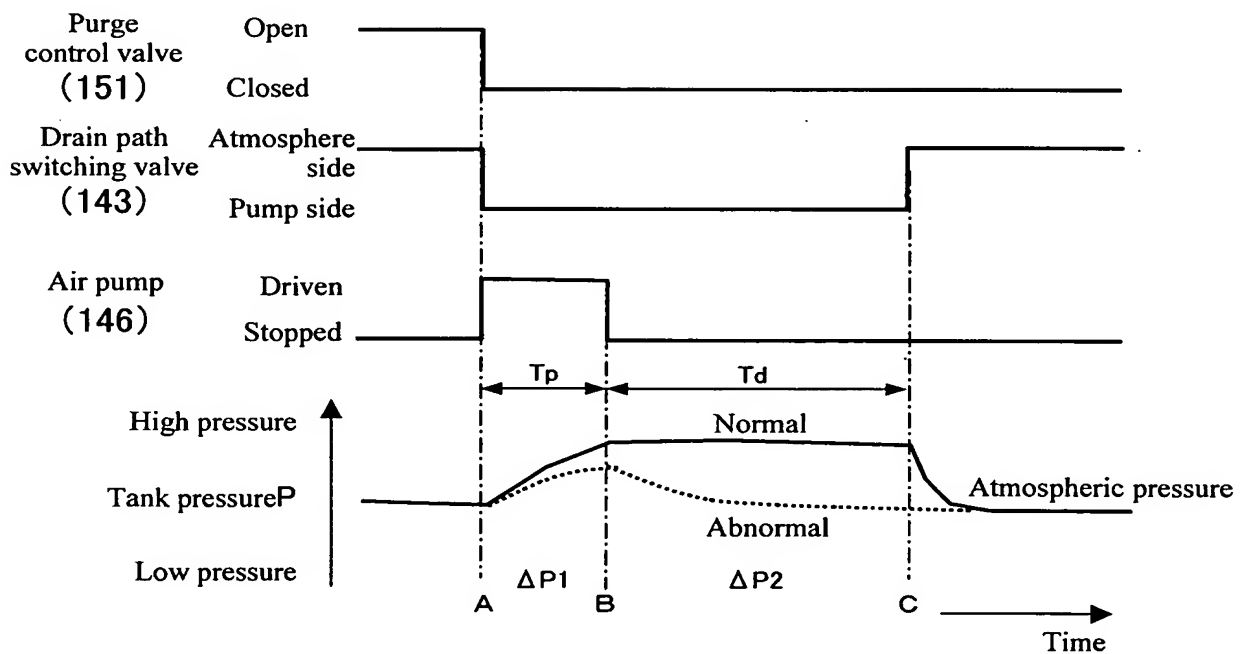


FIG. 17



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graph TD
    Start([Start]) --> S2001{Diagnostic process condition met?}
    S2001 -- YES --> S2002[Switch drain valve to pump side]
    S2001 -- NO --> S2013{Diagnosis being made?}
    S2002 --> S2003{Pull-down diagnosis terminated?}
    S2003 -- YES --> S2004[Drive air pump]
    S2003 -- NO --> S2001
    S2004 --> S2005{Predetermined time T1 elapsed?}
    S2005 -- YES --> S2006[Record pull-down change value ΔP1]
    S2005 -- NO --> S2001
    S2006 --> S2007[Stop air pump]
    S2007 --> S2001
    S2008[Perform leak judgment process] --> S2001
    S2008 --> S2013
    S2009{Leak-down diagnosis terminated?}
    S2009 -- YES --> S2010[Record leak-down change value ΔP2]
    S2009 -- NO --> S2011{Predetermined time T2 elapsed?}
    S2011 -- YES --> S2010
    S2011 -- NO --> S2012[Switch drain valve to atmosphere side]
    S2012 --> S2013
    S2013 -- YES --> S2014[Perform diagnosis stop process]
    S2013 -- NO --> S2001
    S2014 --> S2001

```

FIG. 19

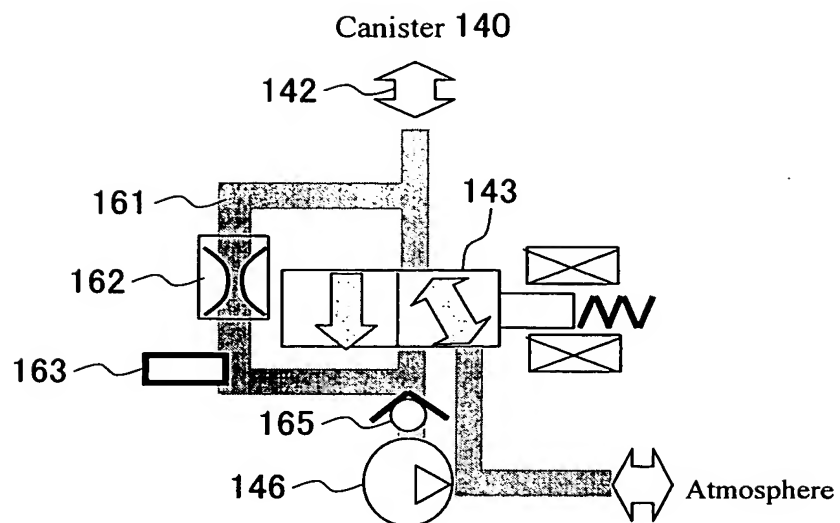


FIG. 20

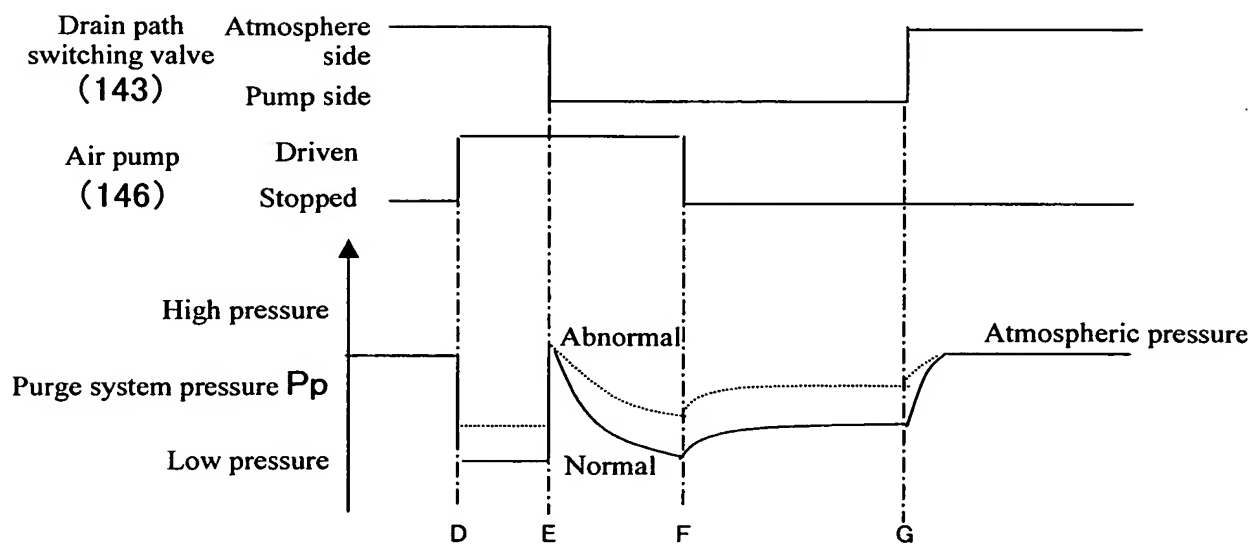


FIG. 21 A

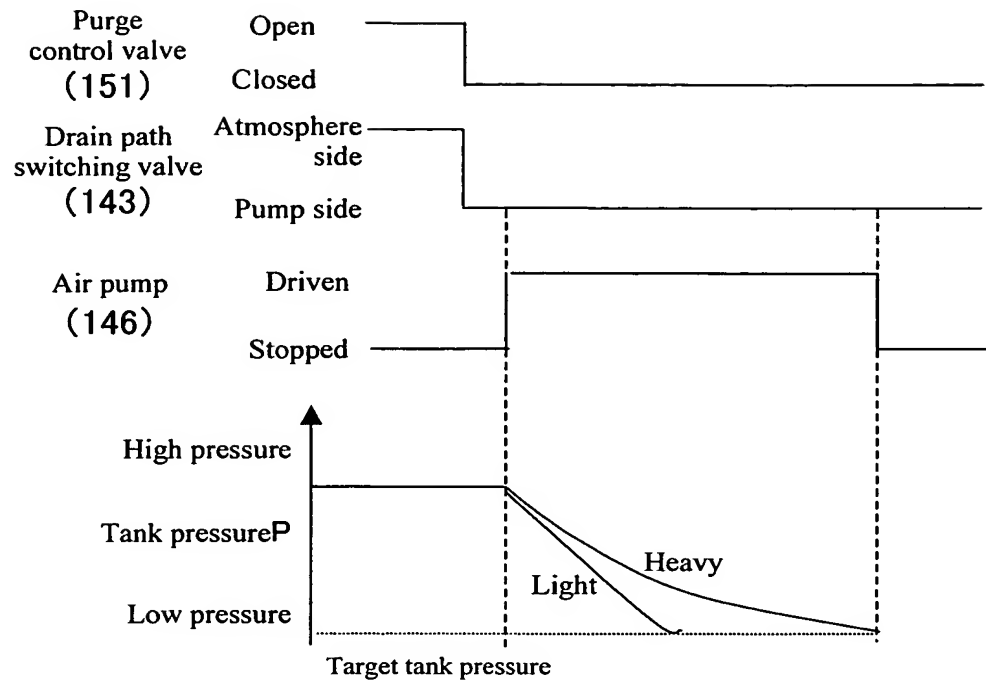


FIG. 21 B

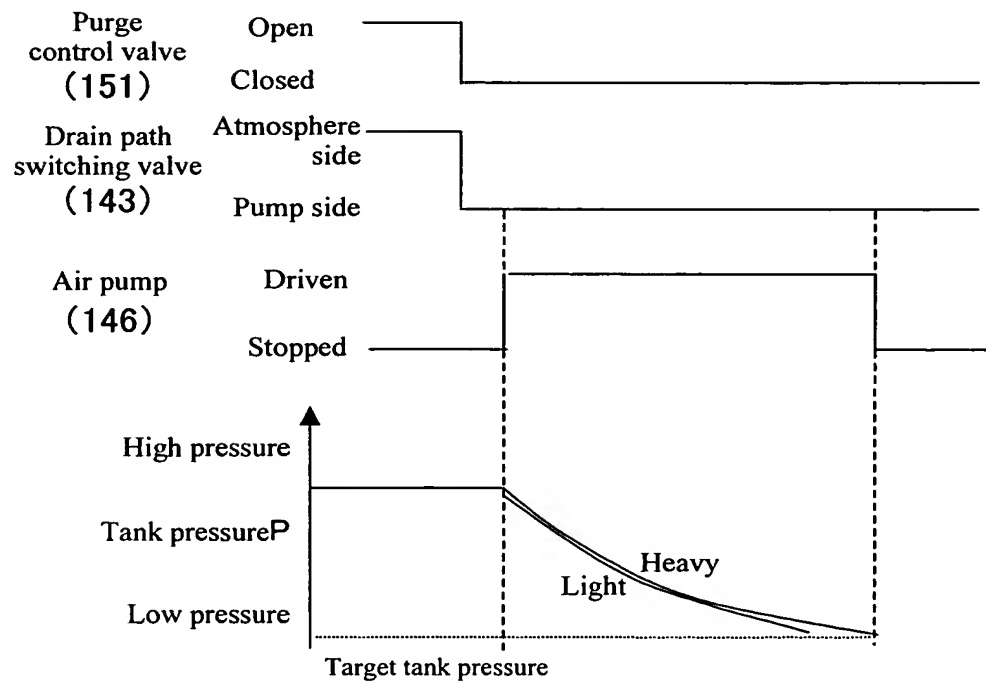


FIG. 22

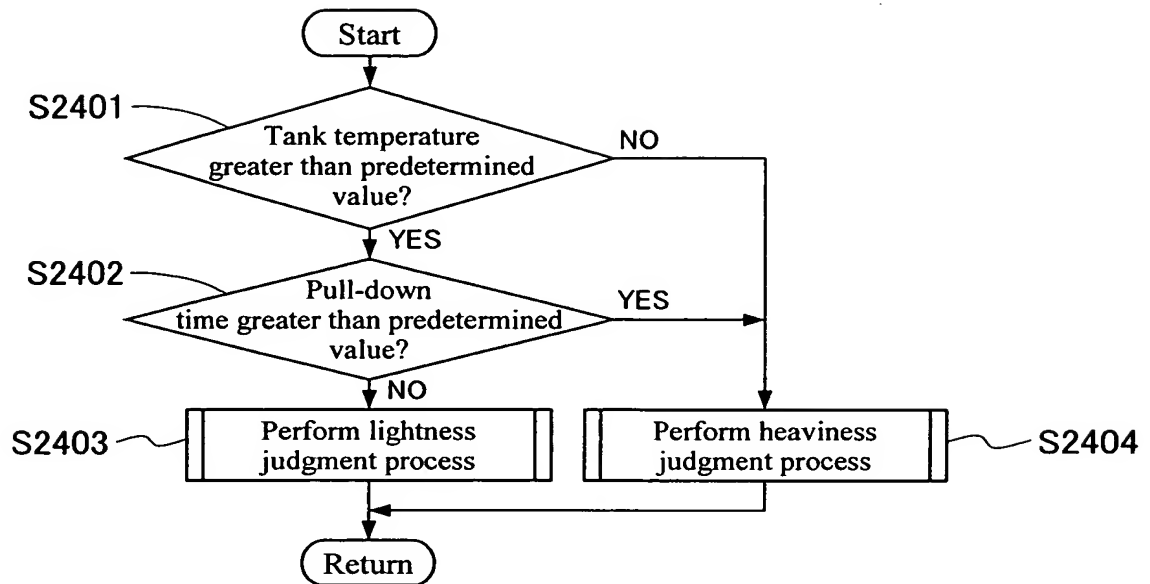


FIG. 23

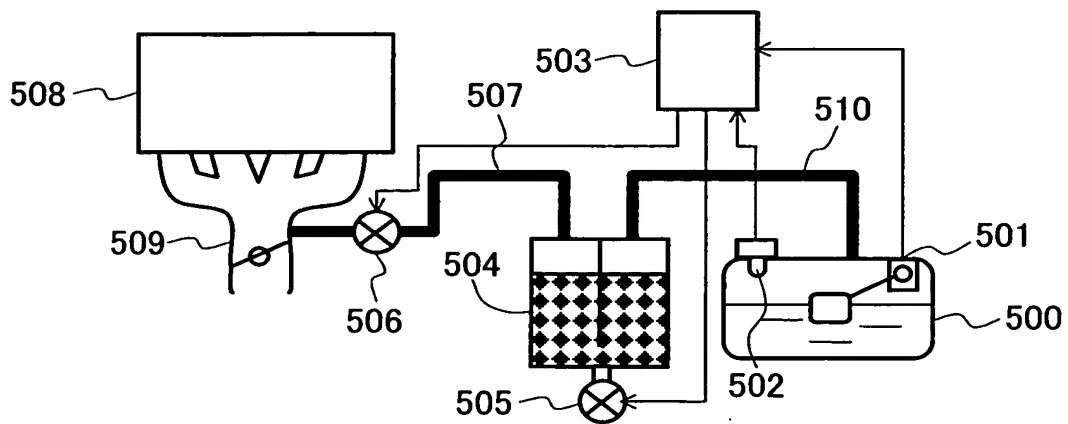


FIG. 24

